



# Chicago Metropolitan Agency for Planning

233 South Wacker Drive  
Suite 800  
Chicago, Illinois 60606

312 454 0400  
[www.cmap.illinois.gov](http://www.cmap.illinois.gov)

September 24, 2019

## **REQUEST FOR PROPOSALS (RFP) NO. 219 FOR ESTIMATION AND ENHANCEMENT OF CMAP'S TRAVEL DEMAND MODELS**

The Chicago Metropolitan Agency for Planning (CMAP) is requesting proposals to provide assistance with estimation and calibration of both its activity-based and trip-based travel demand models, in addition to implementing enhancements to the models as described in this Request for Proposal (RFP).

CMAP will conduct a one-hour non-mandatory on-line pre-bid information session on September 30, 2019 at 10:30 a.m. local time. The information session will include a 20-30 minute introduction to the contents of the RFP. The remaining time will be devoted to answering questions from potential respondents. To register for the webinar please do so using this [link](#) by noon on September 27, 2019.

Participation in the pre-bid discussion is non-mandatory, but is offered as a way to best understand the scope of work we are trying to accomplish. CMAP strongly encourages those interested in this project to register. The questions and responses noted during the pre-bid discussion will be posted to the CMAP website.

If your team is qualified and experienced in performing the described services, CMAP would appreciate receiving your proposal as indicated in the RFP. The deadline for submissions in response to the RFP is **3:00 p.m. Tuesday October 15, 2019.**

Thank you, and if you have any questions, please call me at (312) 386-8756 or email [pdubernat@cmap.illinois.gov](mailto:pdubernat@cmap.illinois.gov).

Sincerely,

Penny DuBernat  
Procurement Officer

Enclosure

**REQUEST FOR PROPOSALS (RFP) NO. 219 FOR  
ESTIMATION AND ENHANCEMENT OF CMAP'S TRAVEL DEMAND MODELS**

*The Chicago Metropolitan Agency for Planning (CMAP) invites contractors to submit proposals for the Estimation and Enhancement of CMAP's Travel Demand Models, as described in this scope of work. Please read each section carefully for information regarding the proposal and submittal instructions.*

**SECTION 1: Background and General Information**

**About CMAP**

The Chicago Metropolitan Agency for Planning (CMAP) is our region's official comprehensive planning organization. The agency and its partners have developed ON TO 2050, a comprehensive plan that builds upon its predecessor GO TO 2040, to help the seven counties and 284 communities of northeastern Illinois implement strategies that address community, prosperity, the environment, governance and mobility. See [www.cmap.illinois.gov](http://www.cmap.illinois.gov) for more information.

**Project Background**

As the metropolitan planning organization for Northeastern Illinois, CMAP performs travel demand modeling to support a number of regional activities. CMAP maintains calibrated and validated versions of both trip-based and activity-based (ABM) travel demand models, which use Emme modeling software. The current versions of both models were developed using data from the Travel Tracker survey conducted during 2007-08. Increasingly CMAP's modeling tools are called upon to answer more sophisticated policy questions, necessitating that they reflect the trends and patterns currently observed in the region. CMAP has now completed data collection for a new household travel and activity survey (My Daily Travel) and intends to update the models to reflect current travel patterns and conditions. The purpose of the project described in this RFP is to estimate and calibrate the sub-models of both travel demand models using the My Daily Travel survey data, and to implement a set of enhancements to both models.

The final My Daily Travel survey dataset is expected to be available in fall 2019 prior to execution of a contract for this project. It is a standard household travel and activity survey completed by more than 12,000 households in northeastern Illinois. During the same period the My Daily Travel survey was also completed for the Northwestern Indiana Regional Planning Commission for Lake, LaPorte and Porter counties in Indiana, which are included in CMAP's modeling area. The scope of the extended area included in CMAP's travel demand models is described in the trip-based model [documentation](#).

**General Information**

As a result of responses to this RFP, CMAP plans to review submissions and may conduct interviews with selected contractors it determines can best meet the requirements outlined below. Negotiations will be held on both the scope and the cost to select the firm that CMAP believes can best satisfy its requirements at rates it perceives are reasonable for the services provided. Subject to "Reservation of Rights" below, it is anticipated that a contract will be awarded for the work described for a period of 24 months from contract signing. CMAP anticipates spending \$550,000 - \$600,000 on this contract and expects the level of contractor effort to be commensurate with that degree of compensation.



## SECTION 2: Scope of Project and Procurement Details

### Project Description

#### *Production Model*

CMAP's trip-based model has been in use for many years and serves as the agency's production model to perform Air Quality Conformity analyses; to assess long-range Plan scenarios; to evaluate the impacts of major capital projects; to test policies, projects and programs for various policy-oriented studies; and to conduct small area traffic forecasts. The current [documentation](#) of CMAP's trip-based model is available on the agency website and the model code is maintained in a [GitHub repository](#). The 2017 model validation [report](#) is also available on CMAP's website. The production model is run using a combination of Emme macros and Python scripts. In addition, several components are run using FORTRAN code: the Trip Generation model, the Mode Choice model, and code that develops zonal highway and transit utilities used within trip distribution.

CMAP modeling staff continually strive to improve the quality of the model data inputs and improve the accuracy of modeling procedures. Along with the last round of model estimation, the Trip Generation model was revised to enumerate household trip purpose productions and attractions based on a range of household attributes, rather than relying on static trip generation rates. More recently, the household enumeration procedures included in the Trip Generation model were replaced to use the synthetic households developed from the population synthesis software used for the ABM. Both models now use a single consistent synthetic population for the same scenario years. Additionally CMAP's trip-based model has recently migrated to a newer, finer-grained zone system ("zone17").

Contractors may choose to submit a proposal that estimates and calibrates CMAP's existing trip-based model code. However CMAP is always interested in improving its analysis tools to provide for more responsive policy analyses. An alternative may be a proposal to replace the trip-based model with a tour-based one that addresses some known trip-based model deficiencies, such as a lack of specificity of trip purpose and the loss of detailed information about individuals and households making specific trips. However, one advantage of the trip based model is its ease of use and overnight run time. Proposals that offer synergy between the ABM and production models without greatly extending processing time or failed runs are encouraged.

CMAP would like to implement the following enhancements to the trip-based model, listed in priority order:

- **Inclusion of the ability to implement shifting of person trips to other time-of-day periods based on model feedback:** CMAP's current production model relies on fixed shares to factor person trip demand into eight time-of-day periods for traffic assignment. A beneficial improvement would include a set of procedures that would use feedback of congested highway conditions as a mechanism for shifting trips into less congested times of the day, especially for future year scenarios.
- **Expansion of the auto sub-mode choices within the Mode Choice Model to include Transportation Network Companies (TNCs) and taxis:** The current mode choice model yields a binary choice between auto and transit modes. For the auto mode, the model includes routines to identify whether a person trip is made as a single-occupant vehicle or a shared ride, categorizing trips as two occupants or more than two. The current auto mode is a generic mode that includes both private vehicle use and the use of on-demand vehicles. Expanding the auto sub-mode options to explicitly identify taxi and TNC trips will allow CMAP to evaluate the impacts that various policy options have on the demand for these services.



CMAP staff completes a large volume of work annually using the production model; this ranges from performing Air Quality Conformity Analyses biennially to completing detailed project studies and conducting several hundred small-area traffic forecasts. As such a vital component of the modeling work completed by CMAP, there are two main considerations/constraints with the production model that must be kept in mind with the proposals: model runtime and operating requirements. A single full production model run can currently be completed on a robust PC (32 GB of RAM, dual Intel i7 processors at 3.60 GHz) in less than 24 hours; two scenarios can be run simultaneously on the same PC in about 24 hours. Due to the large volume of work completed using this model, a model runtime that advances much beyond 24 hours for a single full run will begin to impede staff's ability to meet work obligations. Ideally, any enhanced production model would still be able to be run on the same PCs.

#### *Production Model Uncertainty*

Although every model includes uncertainty, CMAP has not attempted to identify the primary sources of uncertainty in the model or to quantify their impacts. To expand agency understanding of methods and to inform revisions to the trip-based model, the contractor will guide CMAP staff through an analysis quantifying the uncertainty inherent in the current version of the trip-based model. This activity is new to CMAP model practitioners. This Travel Model Improvement Program [Webinar](#) presents background on the desired type of analysis that CMAP is interested in completing.

#### *Activity-Based Model*

CMAP has also developed an activity-based model using the CT-RAMP (Coordinated Travel – Regional Activity Modeling Platform) design and software platform, which is used for larger project studies and to assess the implications of policy initiatives. The initial development of the ABM focused on demonstrating sensitivity to highway pricing scenarios. Follow up development focused on improving the model's sensitivity to a wider range of non-traditional transit attributes. This work focused on responding to changes in transit amenities which do not typically inform transit level-of-service calculations; amenities such as service reliability, personal safety, station and vehicle cleanliness, and crowding. Documentation of these ABM development steps can be found in the [ABM section](#) of CMAP's website. Code for the ABM is also maintained in a [GitHub repository](#). CMAP's CT-RAMP code is written in Java and other components of the model are run using Emme macros and Python scripts.

The incremental approach CMAP implemented to develop the ABM did not allow for the complete design (i.e., estimation-calibration-validation) of the regional ABM. As a result, certain sub-models were borrowed from existing CT\_RAMP applications. With the maturing of the ABM and greater awareness of its capabilities in answering more-sophisticated policy questions, improved calibration of the model became essential to providing quality project- and program-level evaluations. Subsequent work on the ABM has focused on calibration of the sub-models and validation of the overall model to observed data. This collection of activities was completed by contractors and by CMAP staff.

CMAP would like to implement the following enhancements to the ABM, listed in priority order:

- **Migrate the ABM to CMAP's new system of zones and subzones:** The CT-RAMP code operates at the level of Micro Analysis Zones (MAZs), also called subzones, which are subdivisions of CMAP's modeling zone system. Recently CMAP staff completed development of a new zone system ("zone17") that expanded the number of zones in the modeling area from 1,944 to 3,632 in order to allow for a finer level of geographic analysis; the number of subzones increased from 16,819 to 17,418. While the production model has incorporated the new system of zones and subzones, the ABM is still operating under the prior system ("zone09") and needs to be updated to use the new system. Shapefiles of the zones and subzones of both systems are available [here](#).
- **Expansion of the Mode Choice Model to include Transportation Network Companies:** The current mode choice model in CMAP's ABM develops trips for eleven different travel modes: walking, biking, taxi, transit, school bus and six variations of private vehicles that account for different vehicle occupancy levels and tolled vs. non-tolled trips. With the increased usage of



services provided by Transportation Network Companies and the policy implications associated with people selecting this mode over other options, it is important that CMAP's analysis tools account for this mode.

- **Inclusion of a Visitor Trip Estimation model:** In 2014, a Chicago Area Visitor Survey was completed for the Regional Transportation Authority. Data from this survey (available [here](#)) can be used to develop a model to estimate the average weekday visitor trips occurring in CMAP's core seven counties. The model should include information on travel mode, trip time-of-day and should reflect trips made between recognized visitor areas (such as the CBD, tourist attractions, cultural sites, major shopping and entertainment areas, major transportation terminals and lodging locations).
- **Inclusion of the ability to reflect curb space management techniques:** As competition for curb space increases among different sectors of the public (transit riders, ride hailing services, freight and parcel delivery services, bikeshare programs, pedestrians and drivers looking to park), municipalities are faced with the need to coordinate these disparate activities. Strategies to manage curb space may involve enacting time-of-day restrictions on delivery vehicles, converting existing parking spaces to Shared Use Mobility zones for all or part of the day to allow them to be used exclusively by taxis and ride hailing services, or charging variable pricing for curb space based on demand. A set of procedures that reflect the impact on the transportation system of implementing various types of curb management strategies would allow CMAP to begin analyzing the tradeoffs associates with each strategy.

CMAP's ABM is run on dedicated modeling servers. While CMAP has run the ABM using various degrees of distributed computing, general practice is to submit an ABM run to use a single server that has 256 GB of RAM and dual Intel Xeon processors at 2.30 GHz. The primary reason for this is to reduce the likelihood of failed model runs caused by communications latency or other failures.

Contractors are free to propose implementing alternative ABM platforms; however, they must provide a persuasive argument on the benefits to CMAP of changing from CT-RAMP in order for it to be seriously considered.

#### *Excluded from the Scope of Work*

A couple of model components are specifically excluded from the scope of work for this project:

- **Population synthesis:** CMAP is in the process of moving from PopSyn III to PopulationSim as its population synthesis software. The development or enhancement of the population synthesis software is not part of this scope of work, with the exception of including additional household or person attributes as needed to support the travel demand models.
- **Commercial vehicle demand:** The current production model [documentation discusses how commercial vehicle demand is estimated. These demand tables are used for both the production model and the ABM.](#) The development of these procedures is excluded from this scope of work as CMAP is developing a freight forecasting model.

#### **Scope of Services**

All proposals **must** address the estimation and calibration of the sub-models of both the production model and the ABM. CMAP understands that submitted proposals may not address solutions to all of the model enhancements listed in this RFP based on the identified budget and time constraints. Respondents are encouraged to propose a package of enhancements that they feel will best address CMAP's overall needs. This may include proposing methodological improvements, software changes or other revisions which would be beneficial to CMAP but are not specifically listed in this RFP. Respondents are encouraged to think about creative solutions to these issues that could be of benefit to both the ABM and trip-based models.

CMAP expects the proposal to clearly delineate roles, responsibilities, schedule and accountability for quality assurance of both technical and written deliverables. Contractors should assume that CMAP staff



will be actively involved in all phases of the work of this project. Submittals may include suggested roles for CMAP staff to fulfill during the work. CMAP also expects all tasks to include comprehensive, high-quality documentation of the estimation and calibration work performed and any model enhancements developed.

Ultimately, the goal of this project is for CMAP to receive activity-based and production models that are finished products ready to be used for agency analyses. Model validation is not included as a specific task in this RFP, however a certain amount of validation of the models will be necessary to ensure they meet CMAP's needs. CMAP expects that its staff will largely handle the model validation activities as part of providing ongoing feedback to the contractor. It should be understood that the models need to meet reasonable validation benchmarks for commonly-used metrics (for example, transit boardings by mode, demand by rail line, vehicle miles traveled by facility type, root mean squared error of traffic volumes by volume range, to name a few) before they will be accepted by CMAP. CMAP and the contractor will finalize the model validation metrics and benchmarks to be used as part of Task 1 of the contract. Submittals should include a brief discussion of suggested validation metrics and threshold values.

### **Task 1: Develop Project Work Program and Management Plan**

The Contractor and CMAP will jointly develop the administrative structure for this project. The Contractor shall conduct a kickoff meeting at the CMAP office to discuss key elements of the work approach; identify major issues involved in estimating, calibrating or developing sub-models; and discuss methods for reporting work plan progress to CMAP. The role CMAP staff fulfill in accomplishing the work program will also be discussed. The Contractor will hold bi-weekly progress report meetings with CMAP. The proposals submitted in response to this RFP shall identify tasks, milestones, deliverables, due dates, and Contractor personnel commitments in sufficient detail to develop a draft schedule, which will be finalized once the project commences.

#### ***Task 1 Deliverable:***

- Detailed Contractor work plan and schedule

### **Task 2: Conduct an Analysis Quantifying the Uncertainty Inherent in the Current Version of the Trip-Based Model**

The purpose of this task is to understand uncertainties associated with the current trip-based model, potentially inform development of the revised model, and leave CMAP staff with the understanding and tools needed to complete this type of analysis for the new trip-based model or any other model. To accomplish this, the selected consultant will guide CMAP staff through the process of completing an uncertainty analysis based on the existing trip-based model. The analysis is expected to use response surface methodology and will include creating a fractional factorial experimental design, identifying the most important model inputs, creating a synthesized model, estimating the probability distributions of model inputs, applying Monte Carlo simulation techniques to the synthesized model, and interpreting the results.

#### ***Task 2 Deliverables:***

- Technical memorandum or report summarizing the analysis methodology and findings.
- Procedures, scripts and datasets developed to perform the analysis.

### **Task 3: Estimate and Calibrate the Production Model and Implement Enhancements**

The contractor will use the My Daily Travel survey data and other datasets as necessary to estimate and calibrate the sub-models of CMAP's production model so that they reasonably reflect patterns in the observed base year data. Additionally the contractor will develop and implement enhancements to the production model as identified in their submittal. CMAP expects that Task 2 will be completed prior to substantial work commencing on Task 3.



**Task 3 Deliverables:**

- Revised model code and input parameters to reflect that sub-models of the production model have been calibrated to observed conditions for the Chicago region.
- Technical memorandum or report documenting the data resources and procedures used to complete the estimation and calibration, and summarizing the results.
- Technical memorandum or report documenting enhancements and new functionality incorporated into the production model.
- Procedures, scripts and datasets developed to perform model estimation, calibration and the development of model enhancements.

**Task 4: Estimate and Calibrate the ABM and Implement Enhancements**

The contractor will use the My Daily Travel survey data and other datasets as necessary to estimate and calibrate the sub-models of CMAP’s ABM so that they reasonably reflect patterns in the observed base year data. Additionally the contractor will develop and implement enhancements to the ABM as identified in their submittal.

**Task 4 Deliverables:**

- Revised model code and input parameters to reflect that sub-models of the ABM have been calibrated to observed conditions for the Chicago region.
- Technical memorandum or report documenting the data resources and procedures used to complete the estimation and calibration, and summarizing the results.
- Technical memorandum or report documenting enhancements and new functionality incorporated into the ABM.
- Procedures, scripts and datasets developed to perform model estimation, calibration and the development of model enhancements.

**Anticipated Selection Process and Schedule**

September 24, 2019	Release RFP
September 30, 2019	Non-mandatory pre-bid information webinar
October 15, 2019	Proposals due
October 23-25, 2019	Interview finalists, if necessary
November 13, 2019	Decision and execution of contract

**Evaluation Criteria**

All responses to this request for proposals will be analyzed for completeness and cost effectiveness. The following criteria will be used in evaluating submissions:

1. The demonstrated record of experience of the firm and personnel assigned to the project in providing the professional services identified in this scope of work.
2. Prior performance of previous CMAP contracts will be considered, if applicable. Past unsatisfactory performance will ordinarily be sufficient to justify a finding of non-responsibility.
3. The responsiveness of the proposal to the scope of work, as demonstrated through a substantive discussion of the issues; a clearly-defined methodology, process, and timeline; and the degree of innovation included in the proposal.



4. The quality and relevance of the examples of similar work.
5. Cost to CMAP, including consideration of all project costs and per-hour costs.

All timely responses received to this scope of work will be reviewed, and interviews may be conducted with selected submitters CMAP determines can best meet the above requirements. Cost will be evaluated against other factors based upon the professional judgment of those involved in the evaluation. An internal CMAP committee will make the selection decision.

As applicable, hourly rates for personnel the submitter proposes to use will be requested and negotiations will be held on both the scope and the cost to select the contractor CMAP believes can best satisfy its requirements at rates it perceives are reasonable for the services provided.

### SECTION 3: Submittal Requirements

Proposals should be submitted in the order presented:

1. Identify the Contractor team that will be involved in this project. Include a narrative describing the team's combined qualifications and strengths. Clearly identify the project manager, specify the role of subcontractors and describe the team's structure for leadership, support and accountability. Each individual with time on the project should be identified, their qualifications outlined and their role defined whether they work for the lead firm or a subcontractor.
2. Provide a narrative proposal of the approach and techniques the applicant will use to complete the entire scope of services. The proposal must include a clear and concise work plan for achieving the identified tasks and preparing the required deliverables. Refer to the discussion of individual tasks in Section 2 of this RFP to identify specific components of each task that CMAP expects to be delineated in the proposal.
3. Provide at least three examples of similar work that the Contractor has completed. Specify the client, the date completed and the approximate cost of each example. Provide references for each project including the individual contact name and phone number of project managers who are willing and able to comment on the proposed project manager's ability to produce a quality professional product on time and within budget.
4. Submit the "Price Proposal Form," Attachment 1 (printed and Excel file), with all proposed pricing for this project. Specify number of hours, hourly rates for staff with the individuals identified, and any other expenses in the estimation of cost.
5. Sign and submit the "Certificate Regarding Workers' Compensation Insurance," Attachment 2, the "Information to be provided by Bidder," Attachment 3, and "FTA Certification Regarding Lobbying" Attachment 4.

#### **Submission of Proposals**

Proposals must be submitted to CMAP no later than 3:00 p.m. on Friday, October 15, 2019. The proposal should consist of one (1) paper copy of all proposals as well as one (1) electronic version in PDF format on a thumb drive. Please include the Excel file with the Price Proposal Form on the same thumb drive. Submissions must be in a sealed package or envelope. The applicant's organization name and address shall appear in the upper left corner of the package.





Submission of RFP by fax or e-mail is not acceptable. Submissions may be delivered to CMAP in person or sent (by U.S. Postal Service or other reliable means) to the following address:

Chicago Metropolitan Agency for Planning  
Attn: Procurement Officer  
Response to RFP No. 219  
233 S. Wacker Drive, Suite 800  
Chicago, IL 60606

There will be no public opening for this RFQ. Late submissions will be rejected and returned unopened. Questions may be referred to Penny DuBernat, (312) 386-8756 or Email: [pdubernat@cmap.illinois.gov](mailto:pdubernat@cmap.illinois.gov).

## SECTION 4: Contractual Agreement and Rights

### Contractual Agreement

The contract CMAP anticipates awarding as a result of this RFP and subsequent rate submissions and negotiations, if any, will indicate the service requirements, time periods involved and applicable hourly rates. In addition, it will include the General Provisions, Section 5 hereto, and Special Provisions, Section 6 hereto, which will apply to the contract.

### Reservation of Rights

CMAP reserves the following rights if using them will be more advantageous to CMAP:

- 1) Withdraw this RFP at any time without prior notice
- 2) Accept or reject any and all submissions, or any item or part thereof
- 3) Postpone qualifications due date
- 4) Not award a contract to any submitter responding to this RFP
- 5) Award a contract without negotiations or discussions

## SECTION 5: General Provisions

**The following provisions apply to the solicitation to which this section is attached and to any contract that results from the solicitation.** Signatories of this Agreement certify that these conditions and procedures and terms and the conditions and procedures specific to this project will be adhered to unless amended in writing.

- 1) Complete Agreement.
  - a) This Agreement (which also may be herein referred to as "Contract"), including all exhibits and other documents incorporated or referenced in the agreement, constitutes the complete and exclusive statement of the terms and conditions of the agreement between CMAP and Contractor and it supersedes all prior representations, understandings and communications. The invalidity in whole or in part of any term or condition of this Agreement shall not affect the validity of other terms or conditions.
  - b) Order of Precedence: Conflicting provisions hereof, if any, shall prevail in the following descending order of precedence: (1) the provisions of the executed contract, including its exhibits; (2) the provisions of the RFP on which the contract is based including any and all Addendums; (3) the



proposal submitted to CMAP by the Contractor in response to said RFP; and (4) any other documents cited or incorporated herein by reference.

- c) CMAP's failure to insist in any one or more instances upon the performance of any terms or conditions of this Agreement shall not be construed as a waiver or relinquishment of CMAP's right to such performance by the Contractor or to future performance of such terms or conditions and Contractor's obligation in respect thereto shall continue in full force and effect. Contractor shall be responsible for having taken steps reasonably necessary to ascertain the nature and location of the work, and the general and local conditions that can affect the work or the cost thereof. Any failure by the Contractor to do so will not relieve it from responsibility for successfully performing the work without additional expense to CMAP.
  - d) CMAP assumes no responsibility for any understanding or representations made by any of its officers, employees or agents prior to the execution of this Agreement, unless such understanding or representations by CMAP are expressly stated in this Agreement.
  - e) Changes: CMAP may from time to time order work suspension or make any change in the general scope of this Agreement including, but not limited to changes, as applicable, in the drawings, specifications, delivery schedules or any other particulars of the description, statement of work or provisions of this Agreement. If any such change causes an increase or decrease in the cost or time required for performance of any part of the work under this Agreement, the Contractor shall promptly notify CMAP thereof and assert its claim for adjustment within thirty (30) days after the change is ordered. A written amendment will be prepared for agreement between CMAP and the Contractor for changes in scope, time and/or costs. No amendments are effective until there is a written agreement that has been signed by both parties. No claim by the Contractor for equitable adjustment hereunder shall be allowed if asserted after final payment under this Agreement.
  - f) Changes to any portion of this Agreement shall not be binding upon CMAP except when specifically confirmed in writing by an authorized representative of CMAP.
  - g) Only the Executive Director of CMAP, or designee, shall have the authority to act for and exercise any of the rights of CMAP as set forth in this Agreement, subsequent to and in accordance with the authority granted by CMAP's Board of Directors
  - h) For its convenience, CMAP reserves the right to extend the Term of this agreement. Any changes to the Term of this Agreement shall not be binding until specifically confirmed in writing by authorized representatives of both parties.
- 2) Independent Contractor. Contractor's relationship to CMAP in the performance of this Agreement is that of an independent contractor. Contractor's personnel performing work under this Agreement shall at all times be under Contractor's exclusive direction and control and shall be employees of Contractor and not employees of CMAP. Contractor shall pay all wages, salaries and other amounts due its employees in connection with this Agreement and shall be responsible for all reports and obligations respecting them, including, but not limited to, social security, income tax withholding, and unemployment compensation, workers ' compensation insurance and similar matters.
- 3) Assignment.
- a. This agreement shall be binding upon, and inure to the benefit of, the respective successors, assigns, heirs, and personal representatives of CMAP and Contractor. Any successor to the Contractor's rights under this Agreement must be approved by CMAP unless the transaction is



specifically authorized under federal law. Any successor will be required to accede to all the terms, conditions and requirements of the Agreement as a condition precedent to such succession.

- b. The Contractor shall not assign any interest in this Agreement and shall not transfer any interest in the same (whether by assignment or novation), without the prior written consent of CMAP hereto, provided, however, that claims for money due or to become due to the Contractor from CMAP under this Agreement may be assigned to a bank, trust company or other financial institution without such approval. Notice of any such assignment or transfer shall be furnished to CMAP.

4) Availability of Appropriation (30 ILCS 500/20-60). This Agreement is contingent upon and subject to the availability of funds. CMAP, at its sole option, may terminate or suspend this Agreement, in whole or in part, without penalty or further payment being required, if the Illinois General Assembly, the state funding source, or the federal funding source fails to make an appropriation sufficient to pay such obligation, or if funds needed are insufficient for any reason. The contractor will be notified in writing of the failure of appropriation or of a reduction or decrease.

5) Allowable Charges. No expenditures or charges shall be included in the cost of the Project and no part of the money paid to the Contractor shall be used by the Contractor for expenditures or charges that are: (i) contrary to provisions of this Agreement or the latest budget approved by a duly-authorized official of CMAP; (ii) not directly for carrying out the Project; (iii) of a regular and continuing nature, except that of salaries and wages of appointed principal executives of the Contractor who have not been appointed specifically for the purposes of directing the Project, who devote official time directly to the Project under specific assignments, and respecting whom adequate records of the time devoted to and services performed for the Project are maintained by the Contractor may be considered as proper costs of the Project to the extent of the time thus devoted and recorded if they are otherwise in accordance with the provisions hereof; or (iv) incurred without the consent of CMAP after written notice of the suspension or termination of any or all of CMAP's obligations under this Agreement.

#### 6) Method of Payment.

Project expenditures are paid directly from federal and/or state funds. Because CMAP is responsible for obtaining federal reimbursement for project expenditures, it is necessary that CMAP monitor all procedures and documents which will be used to claim and support project-related expenditures. The following procedures should be observed to secure payment:

- b) Based on services performed, CONTRACTOR may submit invoices as frequently as once a month, but is required to submit invoices no later than fifteen (15) days after the end of each quarter. Failure to submit such payment request timely will render the amounts billed an unallowable cost for which the CONTRACTOR cannot be reimbursed. CMAP is committed to reducing paper use and has established an electronic invoicing system. All invoices are to be submitted through email to:

[accounting@cmmap.illinois.gov](mailto:accounting@cmmap.illinois.gov)

All invoices shall be signed by an authorized representative of the CONTRACTOR

- c) Subject to the conditions of this Agreement, CMAP will honor invoices in amounts deemed by it to be proper to insure the carrying out of the approved scope of services and shall be obligated to pay the Contractor such amounts as may be approved by CMAP. Invoices shall detail expenses and amount of time spent on CMAP assignments. If an invoice is not acceptable, CMAP shall promptly provide the Contractor a written statement regarding its ineligibility or deficiencies to be eliminated prior to its acceptance and processing. All invoices for services performed and expenses incurred by CONTRACTOR for the services of this Agreement must be presented to CMAP no later than



fifteen (15) days after the end of this Agreement. Notwithstanding any other provision of this Agreement, CMAP shall not be obligated to make payment to CONTRACTOR on invoices presented after said date. No payments will be made for services performed prior to the effective date of this Agreement. All payments will be transferred electronically to Contractor's business bank account. The successful Contractor will be requested to provide transfer numbers for the business bank account when the contract is finalized, in addition to a copy of its IRS W-9 (Request for Taxpayer Identification Number and Certification).

- d) Each invoice and report submitted must contain: the contract number, a unique vendor invoice number, a description of the services performed, the hourly rates and number of hours worked for each contractor, an itemization of travel and other costs which are chargeable to the contract and the following certification by an official authorized to legally bind the CONTRACTOR:

By signing this payment request, I certify that to the best of my knowledge and belief that the payment request is true, complete, and accurate, and the expenditures, disbursements and cash receipts are for the purposes and objectives set forth in the terms and conditions of this contract. I am aware that any false, fictitious, or fraudulent information, or the omission of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (U.S. Code Title 18, Section 1001 and Title 31, Sections 3729-3730 and 3801-3812).

- e) The Contractor is required to pay all subcontractors within thirty days of receiving payment for that portion of the work from CMAP. Failure to pay subcontractors within thirty days may jeopardize future CMAP contract awards.

- 7) Conflict of Interest. In order to avoid any potential conflict of interest, the Contractor agrees during the term of this Agreement not to undertake any activities which could conflict directly or indirectly with the interest of CMAP. Contractor shall immediately advise CMAP of any such conflict of interest. CMAP shall make the ultimate determination as to whether a conflict of interest exists.

- 8) Audits. The records and supportive documentation for all completed projects are subject to an on-site audit by CMAP. CMAP reserves the right to inspect and review, during normal working hours, the work papers of the CONTRACTOR in support of their invoices.

- 9) Access to Records.

- a. The Contractor and its Subcontractor, under this Agreement shall preserve and produce upon request of the authorized representatives of CMAP all data, records, reports, correspondence and memoranda of every description of the CONTRACTOR and its Subcontractors, if any, under this Agreement relating to carrying out this Agreement for the purposes of an audit, inspection or work review for a period of three (3) years after completion of the project, except that:

- i. If any litigation, claim or audit is started before the expiration of three-year period, the records shall be retained until all litigation, claims or audit findings involving the records have been resolved.
- ii. Records for nonexpendable property acquired with federal funds shall be retained for three (3) years after its final disposition.



The CONTRACTOR shall include a provision in all of its subcontracts, if any, such provisions.

10) Subcontracts.

- a. Any subcontractors or outside associates or contractors required by the Contractor in connection with the services covered by this Agreement will be limited to such individuals or firms as were specifically identified and agreed to during negotiations. Any substitutions in or additions to such subcontractors, associates or contractors will be subject to the prior approval of CMAP.
- b. All subcontracts for work under this Agreement shall contain those applicable provisions which are required in this Agreement.
- c. The Contractor may not subcontract services agreed to under this Agreement without prior written approval of CMAP.

11) Equipment Inventory. An inventory of non-expendable personal property having a useful life of more than two years and an acquisition cost of \$500 or more is subject to periodic inspection by CMAP.

12) Suspension. If the CONTRACTOR fails to comply with the special conditions and/or the general terms and conditions of this Agreement, CMAP may, after written notice to the CONTRACTOR, suspend the Agreement and withhold further payments or prohibit the CONTRACTOR from incurring additional obligations of funds pending corrective action by the CONTRACTOR. If corrective action has not been completed within sixty (60) calendar days after service of written notice of suspension, CMAP shall notify the CONTRACTOR in writing that the Agreement has been terminated by reason of default in accordance with paragraph 14 hereof. CMAP may determine to allow such necessary and proper costs which the CONTRACTOR could not reasonably avoid during the period of suspension provided such costs meet the provisions of the U.S. Office Management and Budget 2 CFR 200 in effect on the date first above written.

13) Termination.

- a. This Agreement may be terminated in whole or in part in writing by either party in the event of substantial failure (hereinafter termed "Termination by Default") by the other party to fulfill its obligations under this Agreement through no fault of the terminating party, provided that no such termination may be affected unless the other party is given (i) not less than seven (7) calendar days written notice (delivered by certified mail, return receipt requested) of intent to Termination by Default, and (ii) an opportunity for consultation with the terminating party prior to Termination by Default.
- b. This Agreement may be terminated in whole or in part in writing by CMAP for its convenience (hereinafter termed "Termination for Convenience"), provided that the CONTRACTOR is given not less than seven (7) calendar days written notice (delivered by certified mail, return receipt requested) of intent to terminate.
- c. If Termination by Default is effected by CMAP, an equitable adjustment in the price provided for in this Agreement shall be made, but (i) no amount shall be allowed for anticipated profit on unperformed services or other work, and (ii) any payment due to the CONTRACTOR at the time of termination may be adjusted to the extent of any additional costs occasioned to CMAP by reason of the CONTRACTOR'S default. If Termination by Default is effected by the CONTRACTOR, or if



Termination for Convenience is effected by CMAP, the equitable adjustment shall include a reasonable profit for services or other work performed. The equitable adjustment for any termination shall provide payment to the CONTRACTOR for services rendered and expenses incurred prior to termination, in addition CMAP may include cost reasonably incurred by the CONTRACTOR relating to commitments which had become firm prior to termination.

- d. Upon notice of termination action pursuant to paragraphs (a) or (b) of this clause, the CONTRACTOR shall (i) promptly discontinue all services affected (unless the notice directs otherwise) and (ii) deliver or otherwise make available to CMAP all data, drawings, specifications, reports, estimates, summaries and such other information and materials as may have been accumulated by the CONTRACTOR in performing this Agreement, whether completed or in process.
- e. Upon termination pursuant to paragraphs (a) or (b) of this clause, CMAP may take over the work and prosecute the same to completion by agreement with another party otherwise.
- f. In the event the CONTRACTOR must terminate this Agreement due to circumstances beyond its control, the termination shall be deemed to have been effected for the convenience of CMAP. In such event, adjustment of the price provided for in this Agreement shall be made as provided in paragraph c of this clause.

#### 14) Patents and Copyright Responsibility.

- a. The Contractor agrees that any material or design specified by the Contractor or supplied by the Contractor pursuant to this Agreement shall not infringe any patent or copyright and the Contractor shall be solely responsible for securing any necessary licenses required for patented or copyrighted material used by the Contractor.
- b. If any claim is brought against CMAP by third parties for alleged infringement of third-party patent and copyright and intellectual rights, which claim is caused by breach of the Contractor's promise as contained in paragraph a of this clause, the Contractor shall save harmless and indemnify CMAP from all loss, damage or expense (including attorney's fees) due to defending CMAP from such claim.
- a. If the principal purpose of this Agreement is to create, develop or improve products, processes or methods; or to explore into fields which directly concern public health, safety or welfare, or if the Project is in a field of science or technology in which there has been little significant experience outside of work funded by federal assistance; and any discovery or invention arises or is developed in the course of or under this Agreement, such invention or discovery shall be subject to the reporting and rights provisions of U.S. Office of Management and Budget Circular No. A-102, and to the pertinent regulations of the grantor agency(ies) in effect on the date of execution of this Agreement. The Contractor shall include provisions appropriate to effectuate the purpose of this condition in all subcontracts under this Agreement involving research, developmental, experimental or demonstration work.
- c. Remedies. Except as may be otherwise provided in this Agreement, all claims, counterclaims, disputes and other matters in question between CMAP and the CONTRACTOR arising out of or relating to this Agreement or the breach thereof will be decided by arbitration. If the parties hereto mutually agree, a request for remedy may be sought from a court of competent jurisdiction within the State of Illinois, County of Cook.



- d. Ownership of Documents/Title of Work. All documents, data and records produced by the Contractor in carrying out the Contractor's obligations and services hereunder, without limitation and whether preliminary or final, shall become and remain the property of CMAP. CMAP shall have the right to use all such documents, data and records without restriction or limitation and without additional compensation to the Contractor. All documents, data and records utilized in performing research shall be available for examination by CMAP upon request. Upon completion of the services hereunder or at the termination of this Agreement, all such documents, data and records shall, at the option of CMAP, be appropriately arranged, indexed and delivered to CMAP by the Contractor.
- e. Software. All software, related computer programs, and source code produced and developed by the Contractor (or authorized contractor or subcontractor thereof) in carrying out the Contractor's obligation hereunder, without limitation and whether preliminary or final, shall become and remain the property of both CMAP and the Contractor. CMAP shall be free to sell, give, offer or otherwise provide said software and related computer programs to any other agency, department, commission, or board of the State of Illinois, as well as any other agency, department, commission, board, or other governmental entity of any country, state, county, municipality, or any other unit of local government or to any entity consisting of representative of any unit of government, for official use by said entity. Additionally, CMAP shall be free to offer or otherwise provide said software and related computer programs to any current or future contractor.

CMAP agrees that any entity to whom the software and related computer programs will be given, sold or otherwise offered shall be granted only a use license, limited to use for official or authorized purposes, and said entity shall otherwise be prohibited from selling, giving or otherwise offering said software and related computer programs without the written consent of both CMAP and the Contractor.

- 15) Publication. CMAP shall have royalty-free, nonexclusive and irrevocable license to reproduce, publish, disclose, distribute, and otherwise use, in whole or in part, any reports, data or other materials specifically prepared under this Agreement, and to authorize other material to do so. The Contractor shall include provisions appropriate to effectuate the purpose of this clause in all subcontracts for work under this Agreement.
- 16) Confidentiality Clause. Any documents, data, records, or other information given to or prepared by the CONTRACTOR pursuant to this Agreement shall not be made available to any individual or organization without prior written approval by CMAP. All information secured by the Contractor from CMAP in connection with the performance of services pursuant to this Agreement shall be kept confidential unless disclosure of such information is approved in writing by CMAP.
- 17) Reporting/Consultation. The Contractor shall consult with and keep CMAP fully informed as to the progress of all matters covered by this Agreement.
- 18) Identification of Documents. All reports, maps, and other documents completed as part of this Agreement, other than documents exclusively for internal use within the Contractor's offices, shall carry the following notation on the front cover or a title page or, in the case of maps, in the same area which contains the name of CMAP and of the Contractor. "This material was prepared in consultation with CMAP, the Chicago Metropolitan Agency for Planning, (<http://www.cmap.illinois.gov>)."



- 19) Force Majeure. Either party shall be excused from performing its obligations under this Agreement during the time and to the extent that it is prevented from performing by a cause beyond its control including, but not limited to: any incidence of fire, flood; acts of God; commandeering of material, products, plants or facilities by the Federal, state or local government; national fuel shortage; or a material act of omission by the other party; when satisfactory evidence of such cause is presented to the other party, and provided further that such nonperformance is unforeseeable, beyond the control and is not due to the fault or negligence of the party not performing.
- 20) Hold Harmless and Indemnity. Neither Party shall be liable for actions chargeable to the other party under this agreement including but not limited to, the negligent acts and omissions of the Party's agents, employees or subcontractors in performance of their duties as described under this agreement, unless such liability is imposed by law. This agreement shall not be constructed as seeking to enlarge or diminish any obligation of duty owed by one Party against the other or against a third party.

## SECTION 6: Certifications

### Federally Funded Agreements

- 1) Standard Assurances. The Contractor assures that it will comply with all applicable federal statutes, regulations, executive orders, Federal Transit Administration (FTA) circulars, and other federal requirements in carrying out any project supported by federal funds. The Contractor recognizes that federal laws, regulations, policies, and administrative practices may be modified from time to time and those modifications may affect project implementation. All contracts, whether funded in whole or in part with either Federal or State funds, are subject to Federal requirements and regulations, including but not limited to 2 CFR Part 200, 44 Ill. Admin. Code 7000.30(b) and the Financial Management Standards in Paragraph 7.9.
- 2) Control of Property. The Contractor certifies that the control, utilization and disposition of property or equipment acquired using federal funds is maintained according to the provisions of 2 CFR Part 200, Subpart D, Property Standards.
- 3) Cost Principles. The Contractor certifies that the cost principles and indirect cost proposals of this Agreement are consistent with 2 CFR Part 200, Subpart E, and Appendix VII to Part 200, and all costs included in this Agreement are allowable under 2 CFR Part 200, Subpart E.
- 4) Audit Requirements. The CONTRACTOR shall be subject to the audit requirements contained in the Single Audit Act Amendments of 1996 (31 USC 7501-7507) and Subpart F of 2 CFR Part 200, and the audit rules set forth by the Governor's Office of Management and Budget. See 30 ILCS 708/65(c).
  - a. Audit required. A non-Federal entity that expends \$750,000 or more during the non-Federal entity's fiscal year in Federal awards must have a single or program-specific audit conducted for that year.
  - b. Single audit. If A non-Federal entity expends \$750,000 or more in Federal Awards (direct federal and federal pass-through awards combined) during its fiscal year, it must have a single audit or program-specific audit conducted for that year as required in 2 CFR 200.501 and other





applicable sections of Subpart F. The audit and reporting package (including data collection form) must be completed as described in 2 CFR 200.512 (single audit) or 2 CFR 200.507 (Program-specific audit). The audit (and package) must be submitted to Grantor either within (i) 30 calendar days after receipt of the auditor's report(s) or (ii) nine months after the end of the audit period, whichever is earlier.

- c. Financial Statement Audit. A non-Federal entity that expends less than \$750,000 in Federal Awards during its fiscal year and is not subject to the audit requirements in 15.2, but receives between \$300,000 and \$499,999 in Federal and State Awards combined, Grantee must have a financial statement audit conducted in accordance with Generally Accepted Auditing Standards (GAAS); if Grantee expends between \$500,000 and \$749,999 in Federal and State awards combined, Grantee must have a financial statement audit conducted in accordance with Generally Accepted Government Auditing Standards (GAGAS). Grantee shall submit these financial statement audit reports to Grantor either within (i) 30 calendar days after receipt of the auditor's report(s) or (ii) 180 calendar days after the end of the audit period, whichever is earlier.
- d. Performance Audits. For those organizations required to submit an independent audit report, the audit is to be conducted by the Illinois Auditor General, or a Certified Public Accountant or Certified Public Accounting Firm licensed in the State of Illinois. For audits required to be performed subject to Generally Accepted Government Auditing Standards, Grantee shall request and maintain on file a copy of the auditor's most recent peer review report and acceptance letter.

5) Intelligent Transportation Systems Program. As used in this assurance, the term Intelligent Transportation Systems (ITS) project is defined to include any project that in whole or in part finances the acquisition of technologies or systems of technologies that provide or significantly contribute to the provision of one or more ITS user services as defined in the "National ITS Architecture."

- a. In accordance with 23 U.S.C. 517(d), as amended by the Moving Ahead for Progress in the 21st Century Act (MAP-21), the Contractor assures it will comply with all applicable requirements of Section V (Regional ITS Architecture and Section VI (Project Implementation)) of FTA Notice, "FTA National ITS Architecture Policy on Transit Projects," at 66 *Fed. Reg.* 1455 *et seq.*, January 8, 2001, and other FTA requirements that may be issued in connection with any ITS project it undertakes financed with Highway Trust Funds (including funds from the mass transit account) or funds made available for the Intelligent Transportation Systems Program.
- b. With respect to any ITS project financed with Federal assistance derived from a source other than Highway Trust Funds (including funds from the Mass Transit Account) or 23 U.S.C. 517(d), the Contractor assures that it will use its best efforts to ensure that any ITS project it undertakes will not preclude interface with other intelligent transportation systems in the Region.

6) Davis-Bacon Act. To the extent applicable, the Contractor will comply with the Davis-Bacon Act, as amended, 40 U.S.C. 3141 *et seq.*, the Copeland "Anti-Kickback" Act, as amended, 18 U.S.C. 874, and the Contract Work Hours and Safety Standards Act, as amended, 40 U.S.C. 3701 *et seq.*, regarding labor standards for federally assisted subagreements.



7) Certifications and Assurances Required by the U.S. Office of Management and Budget (OMB) (SF-424B and SF-424D).

As required by OMB, the Contractor certifies that it:

- a. Has the legal authority and the institutional, managerial, and financial capability to ensure proper planning, management, and completion of the project.
- b. Will give the U.S. Secretary of Transportation, the Comptroller General of the United States, and, if appropriate, the state, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives;
- c. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest or personal gain;
- d. Will initiate and complete the work within the applicable project time periods;
- e. Will comply with all applicable Federal statutes relating to nondiscrimination including, but not limited to:
  - i) Title VI of the Civil Rights Act, 42 U.S.C. 2000d, which prohibits discrimination on the basis of race, color, or national origin;
  - ii) Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. 1681 through 1683, and 1685 through 1687, and U.S. DOT regulations, "Nondiscrimination on the Basis of Sex in Education Programs or Activities Receiving Federal Financial Assistance," 49 CFR Part 25, which prohibit discrimination on the basis of sex;
  - iii) Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794, which prohibits discrimination on the basis of handicap;
  - iv) The Age Discrimination Act of 1975, as amended, 42 U.S.C. 6101 through 6107, which prohibits discrimination on the basis of age;
  - v) The Drug Abuse, Prevention, Treatment and Rehabilitation Act, Public Law 92-255, and amendments thereto, 21 U.S.C. 1101 *et seq.* relating to nondiscrimination on the basis of drug abuse;
  - vi) The Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970, Public Law 91-616, and amendments thereto, 42 U.S.C. 4541 *et seq.* relating to nondiscrimination on the basis of alcohol abuse or alcoholism;
  - vii) The Public Health Service Act of 1912, as amended, 42 U.S.C. 290dd-2 related to confidentiality of alcohol and drug abuse patient records;
  - viii) Title VIII of the Civil Rights Act, 42 U.S.C. 3601 *et seq.*, relating to nondiscrimination in the sale, rental, or financing of housing;
  - ix) Any other nondiscrimination provisions in the specific statutes under which Federal assistance for the project may be provided including, but not limited, to 49 U.S.C. 5332, which prohibits discrimination on the basis of race, color, creed, national origin, sex, or age, and prohibits discrimination in employment or business opportunity, and Section 1101(b) of the Transportation Equity Act for the 21st Century, 23 U.S.C. 101 note, which provides for participation of disadvantaged business enterprises in FTA programs; and
- f. Any other nondiscrimination statute(s) that may apply to the project.
  - i) The prohibitions against discrimination on the basis of disability, as provided in the Americans with Disabilities Act of 1990, as amended, 42 U.S.C. 12101 *et seq.*
- g. Will comply with all federal environmental standards applicable to the project, including but not limited to:
  - i) Institution of environmental quality control measures under the National Environmental Policy Act of 1969 and Executive Order 11514;
  - ii) Notification of violating facilities pursuant to Executive Order 11738;
  - iii) Protection of wetlands pursuant to Executive Order 11990;
  - iv) Evaluation of flood hazards in floodplains in accordance with Executive Order 11988;
  - v) Assurance of project consistency with the approved State management program developed



- under the Coastal Zone Management Act of 1972, 16 U.S.C. 1451 et seq.;
  - vi) Conformity of federal Actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended, 42 U.S.C. 7401 et seq.;
  - vii) Protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended;
  - viii) Protection of endangered species under the Endangered Species Act of 1973, as amended;
  - ix) Contractor will comply with the environmental protections for Federal transportation programs, including, but not limited to, protections for parks, recreation areas, or wildlife or waterfowl refuges of national, State, or local significance or any land from a historic site of national, State, or local significance to be used in a transportation Project, as required by 49 U.S.C. 303 (also known as "Section 4f");
  - x) The Wild and Scenic Rivers Act of 1968, 16 U.S.C. 1271 et seq., which relates to protecting components or potential components of the national wild scenic rivers system; and Environmental impact and related procedures pursuant to 23 C.F.R. Part 771.
- 8) Will comply with all other federal statutes applicable to the project, including but not limited to:
- a. As provided by the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended (Uniform Relocation Act), 42 U.S.C. 4601 et seq., and 49 U.S.C. 5323(b), regardless of whether Federal funding has been provided for any of the real property acquired for Project purposes, Contractor:
    - i) will provide for fair and equitable treatment of any displaced persons, or any persons whose property is acquired as a result of federally-funded programs,
    - ii) has the necessary legal authority under State and local laws and regulations to comply with: The Uniform Relocation Act. 42 U.S.C. 4601 et seq., as specified by 42 U.S.C. 4630 and 4655, and U.S. DOT regulations, "Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally Assisted Programs," 49 CFR part 24, specifically 49 CFR 24.4, and
    - iii) has complied with or will comply with the Uniform Relocation Act and implementing U.S. DOT regulations because:
    - iv) will adequately inform each affected person of the benefits, policies, and procedures provided for in 49 CFR part 24,
    - v) As required by 42 U.S.C. 4622, 4623, and 4624, and 49 CFR part 24, if an FTA-funded Project results in displacement, it will provide fair and reasonable relocation payments and assistance to:
      - 1. Displaced families or individuals, and
      - 2. Displaced corporations, associations, or partnerships,
    - vi) As provided by 42 U.S.C. 4625 and 49 CFR part 24, it will provide relocation assistance programs offering the services described in the U.S. DOT regulations to such:
      - 1. Displaced families and individuals, and
      - 2. Displaced corporations, associations, or partnerships,
    - vii) As required by 42 U.S.C. 4625(c)(3), within a reasonable time before displacement, it will make available comparable replacement dwellings to families and individuals,
    - viii) Contractor:
      - 1. Carry out the relocation process to provide displaced persons with uniform and consistent services, and
      - 2. Make available replacement housing in the same range of choices with respect to such housing to all displaced persons regardless of race, color, religion, or national origin,
    - ix) It will be guided by the real property acquisition policies of 42 U.S.C. 4651 and 4652,
    - xi) will pay or reimburse property owners for their necessary expenses as specified in 42 U.S.C. 4653 and 4654, understanding that FTA will provide Federal funding for its eligible costs for providing payments for those expenses, as required by 42 U.S.C. 4631,



- xii) will execute the necessary implementing amendments to FTA-funded third party contracts and subagreements,
- xiii) will execute, furnish, and be bound by such additional documents as FTA may determine necessary to effectuate or implement these assurances,
- xiv) will incorporate these assurances by reference into and make them a part of any third party contract or subagreement, or any amendments thereto, relating to any FTA-funded Project involving relocation or land acquisition, and
- xv) will provide in any affected document that these relocation and land acquisition provisions must supersede any conflicting provisions;
  - (1) The Hatch Act, 5 U.S.C. 1501 – 1508, 7324 – 7326, which limits the political activities of State and local agencies and their officers and employees whose primary employment activities are financed in whole or part with Federal funds, including a Federal Loan, Grant Agreement, or Cooperative Agreement, and
  - (2) 49 U.S.C. 5323(l)(2) and 23 U.S.C. 142(g), which provide an exception from Hatch Act restrictions for a nonsupervisory employee of a public transportation system (or of any other agency or entity performing related functions) receiving FTA funding appropriated or made available for 49 U.S.C. chapter 53 and 23 U.S.C. 142(a)(2) to whom the Hatch Act does not otherwise apply,
- xi) The Flood Disaster Protection Act of 1973, which requires the purchase of flood insurance in certain instances;
- xii) Section 106 of the National Historic Preservation Act of 1966, as amended, 16 U.S.C. 470;
- xiii) Executive Order 11593, which relates to identification and protection of historic properties;
- xiv) The Archaeological and Historic Preservation Act of 1974, 16 U.S.C. 469a-1 et seq.;
- xv) The Laboratory Animal Welfare Act of 1966, as amended, 7 U.S.C. 2131 et seq., which relates to the care, handling, and treatment of warm-blooded animals held for research, teaching, or other activities supported by a federal award of assistance;
- xvi) The Lead-Based Paint Poisoning Prevention Act, 42 U.S.C. 4801 et seq., which relates to prohibiting the use of lead-based paint in construction or rehabilitation of residence structures;
- xvii) The Single Audit Act Amendments of 1996 and OMB Circular No. A-133, “Audits of States, Local Governments, and Non-Profit Organizations”; and
- xviii) Use of parks, recreation areas, wildlife and waterfowl refuges, and historic sites pursuant to 23 C.F.R. Part 774 (Section 4(f) requirements); and
- b. Contractor will, to the extent applicable, comply with the protections for human subjects involved in research, development, and related activities supported by Federal funding of:
  - (1) The National Research Act, as amended, 42 U.S.C. 289 *et seq.*, and
  - (2) U.S. DOT regulations, “Protection of Human Subjects,” 49 CFR part 11.

9) Energy Conservation. To the extent applicable, the Contractor and its third party Contractors at all tiers shall comply with mandatory standards and policies relating to energy efficiency that are contained in applicable state energy conservation plans issued in compliance with the Energy Policy and Conservation Act, 42 U.S.C. Section 6321 et seq.

10) Eligibility For Employment In The United States. The Contractor shall complete and keep on file, as appropriate, Immigration and Naturalization Service Employment Eligibility Forms (I-9). These forms shall be used by the Contractor to verify that persons employed by the Contractor are eligible to work in the United States.



- 11) Buy America. As set forth in 49 U.S.C 5323(j) and 49 C.F.R. Part 661, only steel, iron and manufactured products produced in the United States may be purchased with Federal funds unless the Secretary of Transportation determines that such domestic purchases would be inconsistent with the public interest; that such materials are not reasonably available and of satisfactory quality; or that inclusion of domestic materials will increase the cost of overall project contract by more than 25 percent. Clear justification for the purchase of non-domestic items must be in the form of a waiver request submitted to and approved by the Secretary of Transportation.
- 12) False Or Fraudulent Statements Or Claims. The CONTRACTOR acknowledges that if it makes a false, fictitious, or fraudulent claim, statement, submission, or certification to CMAP in connection with this Agreement, CMAP reserves the right to impose on the Contractor the penalties of 18 U.S.C. Section 1001, 31 U.S.C. Section 3801, and 49 CFR Part 31, as CMAP may deem appropriate. Contractor agrees to include this clause in all state and federal assisted contracts and subcontracts.
- 13) Changed Conditions Affecting Performance. The CONTRACTOR shall immediately notify CMAP of any change in conditions or local law, or of any other event which may significantly affect its ability to perform the Project in accordance with the provisions of this Agreement.
- 14) Third Party Disputes Or Breaches. The CONTRACTOR agrees to pursue all legal rights available to it in the enforcement or defense of any third party contract, and FTA or U.S. DOT and CMAP reserve the right to concur in any compromise or settlement of any third party contract claim involving the Contractor. The Contractor will notify FTA or U.S. DOT and the CMAP of any current or prospective major dispute pertaining to a third party contract. If the Contractor seeks to name CMAP as a party to the litigation, the Contractor agrees to inform both FTA or U.S. DOT and CMAP before doing so. CMAP retains a right to a proportionate share of any proceeds derived from any third party recovery. Unless permitted otherwise by the CMAP, the Contractor will credit the Project Account with any liquidated damages recovered. Nothing herein is intended to nor shall it waive U.S. DOT's, FTA's or the CMAP's immunity to suit.
- 15) Fly America. The CONTRACTOR will comply with 49 U.S.C. §40118, 4 CFR §52 and U.S. GAO Guidelines B- 138942, 1981 U.S. Comp. Gen. LEXIS 2166, March 31, 1981 regarding costs of international air transportation by U.S. Flag air carriers.
- 16) Non-Waiver. The CONTRACTOR agrees that in no event shall any action or inaction on behalf of or by CMAP, including the making by CMAP of any payment under this Agreement, constitute or be construed as a waiver by CMAP of any breach by the Contractor of any terms of this Agreement or any default on the part of the Contractor which may then exist; and any action, including the making of a payment by CMAP, while any such breach or default shall exist, shall in no way impair or prejudice any right or remedy available to CMAP in respect to such breach or default. The remedies available to CMAP under this Agreement are cumulative and not exclusive. The waiver or exercise of any remedy shall not be construed as a waiver of any other remedy available hereunder or under general principles of law or equity.
- 17) Preference for Recycled Products. To the extent applicable, the Contractor agrees to give preference to the purchase of recycled products for use in this Agreement pursuant to the various U.S. Environmental Protection Agency (EPA) guidelines, "Comprehensive Procurement



Guidelines for Products Containing Recovered Materials,” 40 CFR Part 247, which implements section 6002 of the Resource Conservation and Recovery Act, as amended, 42 U.S.C. § 6962.

- 18) Cargo Preference. Use of United States Flag Vessels. The Contractor agrees to comply with 46 U.S.C. § 55305 and 46 CFR Part 381 and to insert the substance of those regulations in all applicable subcontracts issued pursuant to this Agreement, to the extent those regulations apply to this Agreement.
- 19) Performance measurement. The Contractor must relate financial data of this AGREEMENT to its performance accomplishments. Further, the Contractor must also provide cost information or a budget in Part 6 to demonstrate cost effective practices pursuant to 2 CFR Part 200.301.
- 20) Project closeout. Pursuant to CFR Part 200.343 thru 200.345, the Contractor must submit the required project deliverables, performance and financial reports, and all eligible incurred costs as specified in Parts 5 and 6, respectively, of this AGREEMENT no later than 90 days after the AGREEMENT’s end date. Further, the Contractor agrees that the project should then be closed no later than 360 days after receipt and acceptance by CMAP of all required final reports.
- 21) Certification Regarding Annual Fiscal Reports or Payment Vouchers. The Contractor agrees to comply with 2 CFR Part 200.415(a) as follows: To assure that expenditures are proper and in accordance with the terms and conditions of the Federal award and approved project budgets, the annual and final fiscal reports or vouchers requesting payment under the agreements must include a certification, signed by an official who is authorized to legally bind the Contractor, which reads as follows: “By signing this report, I certify to the best of my knowledge and belief that the report is true, complete, and accurate, and the expenditures, disbursements and cash receipts are for the purposes and objectives set forth in the terms and conditions of the Federal award. I am aware that any false, fictitious, or fraudulent information, or the omission of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (U.S. Code Title 18, Section 1001 and Title 31, Sections 3729-3730 and 3801-3812).”
- 22) Certifications: Both Parties, their employees and subcontractors under subcontract made pursuant to this Agreement, remain compliant with all applicable provisions of State and Federal laws, statutes and ordinances and all lawful orders, rules and regulations promulgated thereunder. Since laws, regulations, directives, etc. may be modified from time-to-time, the Contractor shall be responsible for compliance as modifications are implemented, to the extent that the certifications apply to the Contractor, pertaining to:
  - a. Bribery. Pursuant to (30 ILCS 500/50-5);
  - b. Bid Rigging. Pursuant to (720 ILCS 500/33E- or 33E-4);
  - c. Debt to State. Pursuant to (30 ILCS 500/50-11);
  - d. Education Loan. Pursuant to (5 ILCS 385/1 *et seq.*);
  - e. International Boycott. Pursuant to U.S. Export Administration Act of 1979 or the applicable regulation of the U.S. Department of Commerce. This applies to contracts that exceed \$10,000 (15 CFR Part 730 through 774);
  - f. Forced Labor Act. Pursuant to (30 ILCS 583);
  - g. Dues and Fees to any club which unlawfully discriminates. Pursuant to (775 ILCS 25/1 *et seq.*);
  - h. Pro-Children Act. Pursuant to (20 USC 7181-7184) and the Goods from Child Labor Act (30 ILCS 584);
  - i. Drug-Free Work Place. Pursuant to (30 ILCS 580/3 and 41 USC 8102).
  - j. Clean Air Act and Clean Water Act. Pursuant to (42 USC §7401 *et seq.*) and the Federal Water



- Pollution Control Act, as amended (33 USC 1251 *et seq.*);
- k. Debarment. Pursuant to (2 CFR 200.205(a)) or by the State (30 ILCS 708/25(6)(g));
- l. Non-procurement Debarment and Suspension. Pursuant to (2 CFR Part 180 as supplemented by 2 CFR part 376, Subpart C);
- m. Grant for the Construction of Fixed Works. This agreement is subject to the Illinois Prevailing Wage Act Pursuant to (820 ILCS 130/0.01 *et seq.*)
- n. Health Insurance Portability and Accountability Act of 1996. Pursuant to Public Law No. 104-191 (45 CFR Parts 160, 162, and 164 and the Social Security Act of, 42 USC 1320d-2through 1320d- 7).
- n. Criminal Convictions. Pursuant to the Sarbanes-Oxley Act of 2002, nor a class 3 or Class 2 felony under Illinois Securities Law of 1953 or pursuant to (30 ILCS 500/50).
- o. Illinois Use Tax. Pursuant to (30 ILCS 500/50);
- p. Environmental Protection act Violations. Pursuant to (30 ILCS 500/50-14)
- q. Federal Funding Accountability and Transparency Act of 2006 (31 USC 6101);
- r. Motor Vehicle Law: Grantee certifies that it is in full compliance with the terms and provisions of the National Voter Registration Act of 1993 (52 USC 20501 *et seq.*);
- s. Goods from Child Labor Act. Pursuant to (30 ILCS 847);

23) Unlawful Discrimination. Compliance with Nondiscrimination Laws. Both Parties, their employees and subcontractors under subcontract made pursuant to this Agreement, remain compliant with all applicable provisions of State and Federal laws and regulations pertaining to nondiscrimination, sexual harassment and equal employment opportunity including, but not limited to, the following laws and regulations and all subsequent amendments thereto:

- a. The Illinois Human Rights Act (775 ILCS 5/1-101 *et seq.*), including, without limitation, 44 Ill. Admin. Code Part 750, which is incorporated herein;
- b. The Public Works Employment Discrimination Act (775 ILCS 10/1 *et seq.*);
- c. The United States Civil Rights Act of 1964 (as amended) (42 USC 2000a- and 2000h-6). (See *also* guidelines to Federal Financial Assistance Recipients Regarding Title VI Prohibition Against National Origin Discrimination Affecting Limited English Proficient Persons [Federal Register: February 18, 2002 (Volume 67, Number 13, Pages 2671-2685)]);
- d. Section 504 of the Rehabilitation Act of 1973 (29 USC 794);
- e. The Americans with Disabilities Act of 1990 (42 USC 12101 *et seq.*); and
- f. The Age Discrimination Act (42 USC 6101 *et seq.*).

24) Political Activity. No portion of funds for this subcontract shall be used for any partisan political activity or to further the election or defeat of any candidate for public office.

25) EO 1-2007 Compliance: CONTRACTOR certifies that to the best of its knowledge, its sub-contractors have complied with and will comply with Executive Order No. 1 (2007) (EO 1-2007). EO 1-2007 generally prohibits contractors and subcontractors from hiring the then-serving Governor's family members to lobby procurement activities to the State, or any other unit of government in Illinois including local governments, if that procurement may result in a contract valued at over \$25,000.

This prohibition also applies to hiring for that same purpose any former State employee who had procurement authority at any time during the one-year period preceding the procurement lobbying activity.

26) Prohibited Interest. No officer or employee of CMAP and no member of its governing body and no other public official of any locality in which the Project objectives will be carried out who



exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of such objectives shall (i) participate in any decision relating to any subcontract negotiated under this Agreement which affects his personal interest or the interest of any corporation, partnership or association in which he is, directly or indirectly, interested; or (ii) have any financial interest, direct or indirect, in such subcontract or in the work to be performed under such contract. No member of or delegate of the Illinois General Assembly or the Congress of the United States of America, and no federal Resident Commissioner, shall be admitted to any share hereof or to any benefit arising herefrom. The Contractor warrants and represents that no person or selling agency has been employed or retained to solicit or secure this Agreement, upon an agreement or understanding for a commission, percentage, bonus, brokerage or contingent fee, or gratuity, excepting its bona fide employees. For breach or violation of this warranty CMAP shall have the right to annul this Agreement without liability or, at its discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such commission, percentage bonus, brokerage or contingent fee, or gratuity.

The Contractor will disclose all violations of criminal law involving fraud, bribery and gratuity violations. The Contractor's failure to comply shall constitute a material breach of this contract.

- 27) Compliance with Registration Requirements. The CONTRACTOR shall be registered with the Federal System for Award Management (SAM) and have a valid DUNS number. It is the CONTRACTOR'S responsibility to remain current with these registrations and requirements. If the CONTRACTOR'S status with regard to any of these requirements change, the CONTRACTOR must notify CMAP immediately.
- 28) Improper Influence. Grantee certifies that no Grant Funds have been paid or will be paid by or on behalf of Grantee to any person for influencing or attempting to influence an officer or employee of any government agency, a member of Congress or Illinois General Assembly, an officer or employee of Congress or Illinois General Assembly, or an employee of a member of Congress or Illinois General Assembly in connection with the awarding of any agreement, the making of any grant, the making of any loan, the entering into of any cooperative agreement, or the extension, continuation, renewal, amendment or modification of any agreement, grant, loan or cooperative agreement. 31 USC 1352. Additionally, Grantee certifies that it has filed the required certification under the Byrd Anti-Lobbying Amendment (31 USC 1352), if applicable.
- 29) Federal Form LLL. If any funds, other than Federally-appropriated funds, were paid or will be paid to any person for influencing or attempting to influence any of the above persons in connection with this Agreement, the undersigned must also complete and submit Federal Form LLL, Disclosure of Lobbying Activities Form, in accordance with its instructions.
- 30) Lobbying Costs. Grantee certifies that it is in compliance with the restrictions on lobbying set forth in 2 CFR Part 200.450. For any Indirect Costs associated with this Agreement, total lobbying costs shall be separately identified in the Program Budget, and thereafter treated as other Unallowable Costs.
- 31) Certification. This certification is a material representation of fact upon which reliance was placed to enter into this transaction and is a prerequisite for this transaction, pursuant to 31 USC 1352. Any person who fails to file the required certifications shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

All of the requirements listed in Part 6, paragraphs 1 through 31 apply to the federally funded project. The Contractor agrees to include these requirements in each contract and subcontract financed in whole or in part with federal assistance.





## SECTION 6: Specific Provisions

- 1) Workers' Compensation. The State of Illinois Worker's Compensation Code requires the securing of workers' compensation by all non-state employers. The Submitter shall attest to understanding and complying with the State of Illinois Workers' Compensation Code requirement and submit a completed "Certificate Regarding Workers' Compensation Insurance," Attachment 2 to the RFP. In addition, the Submitter shall provide and maintain a waiver of subrogation endorsement in addition to listing CMAP as an additional insured.
  
- 2) FTA Certification Regarding Lobbying. The Federal Transportation Authority (FTA) a source of funds for this project requires the Certification for Contracts, Grants, Loans, and Cooperative Agreements to be submitted with each bid or offer exceeding \$100,000. The Submitter shall attest to understanding and complying with the FTA Certification Regarding Lobbying (49 CRF PART 20) requirement and submit a completed "FTA Certification Regarding Lobbying" Attachment 4 to the RFP for any proposals which may or will exceed \$100,000.

### Attachment 1: Certificate Regarding Workers' Compensation Insurance

#### Certificate Regarding Workers' Compensation Insurance

In conformance with current statutory requirements of Section 820 ILCS 305/1 et. seq., of the Illinois Labor Code, the undersigned certifies as follows:

"I am aware of the provisions of Section 820 ILCS 305/1 of the Labor Code which require every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with such provisions before commencing the performance of the work of this contract."

Bidder/Contactor \_\_\_\_\_

Signature \_\_\_\_\_

Name and Title \_\_\_\_\_ Date \_\_\_\_\_



**Attachment 2: Bidder Information**

The Bidder is required to supply the following information (if necessary, attach additional sheets for both the primary firm and any subcontractors):

Firm Name: \_\_\_\_\_ Contact Person: \_\_\_\_\_

Business Address: \_\_\_\_\_

Telephone: (\_\_\_\_) \_\_\_\_\_ FAX: (\_\_\_\_) \_\_\_\_\_ E-mail: \_\_\_\_\_

Years of Experience: \_\_\_\_\_

Type of Firm – Sole Proprietor, Partnership, Corporation, Joint Venture, Etc.: \_\_\_\_\_

Organized under the laws of state of: \_\_\_\_\_

Business License No.: \_\_\_\_\_ Business License Expiration Date: \_\_\_\_\_

DUNS No. \_\_\_\_\_ SAM Cage Code: \_\_\_\_\_

List names and addresses of owners of the firm or names and titles of officers of the corporation:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Client list of services rendered currently and/or in the recent past:

<u>Type of Service/Product</u>	<u>Date Completed</u>	<u>Name and Address of Client</u>	<u>Contact Name and Phone Number</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

## DBE Information

Bidder hereby certifies that it (check one):  IS  IS NOT an eligible Disadvantaged Business Enterprise (DBE) as defined in 49 CFR 23). **If "IS" is checked, attach copy of document that certifies Bidder's status as a DBE.**

### IMPORTANT

**All RFP responses without signed and dated Attachment 1 documents will be deemed unresponsive and will not be evaluated.**

**RFP responses without DUNS Numbers will be deemed unresponsive and will not be evaluated.**

**All contracted vendors MUST have a valid and ACTIVE System for Award Management (SAM) CAGE Code. If your firm does not have a CAGE Code, please begin the process now at [www.sam.gov](http://www.sam.gov) and register your entity. There is no fee for this registration.**

**CMAP CANNOT LEGALLY ENTER INTO A CONTRACTURAL RELATIONSHIP WITHOUT A VALID, ACTIVE CAGE CODE.**



**Attachment 3: FTA Certification Regarding Lobbying**

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, et seq.)]
- 3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than

\$10,000 and not more than \$100,000 for each such expenditure or failure.]

The Contractor, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, et seq., apply to this certification and disclosure, if any.

\_\_\_\_\_  
Signature of Contractor's Authorized Official

\_\_\_\_\_  
Date

Name and Title of Contractor's Authorized  
Official:

\_\_\_\_\_

